

(LD 4267)

AUGUST 2013

Sub. Code: 4267

FOURTH YEAR B.PHARM. EXAM**PAPER I – FORMULATIVE PHARMACY AND BIOPHARMACEUTICS***Q.P. Code: 564267***Time: Three Hours****Maximum: 100 marks****I. Elaborate on:****(2X20=40)**

1. What are Preformulation Studies? Explain what physicochemical properties of the drugs are determined in preformulation studies and their importance.
2. Write on the different types of transdermal drug delivery systems and their evaluation.

II. Write notes on:**(8X5=40)**

1. Different types of tablets
2. Quality control tests on hard gelatin capsules
3. Film forming formulations in tablet film coating
4. Design of oral sustained release products
5. Pan coating
6. Bioequivalency testing
7. Dosage form considerations in gastrointestinal absorption
8. Factors affecting stability of drug dosage forms

III. Short Answers on:**(10X2=20)**

1. Components of a rotary punching machine
2. Define bioavailability
3. Diluents used in tableting
4. Storage Conditions to be maintained in standard stability testing
5. What is a fluidized bed processor?
6. What is meant by orange peel effect in tablet coating?
7. Name tablet hardness testers
8. Relationship between biological half life and elimination rate constant in IV bolus dosing following one compartment model
9. Materials required for liposome preparation
10. What is an implant?
